## Eighteen Mile Creek Superfund Site Superfund Response Action Priority Panel Review 2013

## Site Location Map

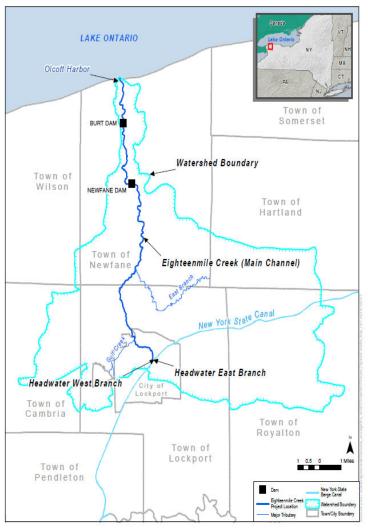


Figure 1 Eighteen Mile Creek Site Location

10/30/13



- Site is located in Niagara County, New York
- The Site has a long history of industrial use dating back to the 1800's when the creek was used as a water source of power.
- The headwaters of the creek begin immediately north of the New York State Barge Canal (also known the Erie Canal) in the City of Lockport, NY.
- The creek flows north for approximately 15 miles and discharges into Lake Ontario in Olcott, NY.
- The site was placed on the Superfund National Priorities List in March 2012.
- Site investigations have revealed sediments, soil and ground water in and around the creek and nearby properties are contaminated with a combination of pollutants, including PCBs, lead and chromium.





#### EPA's Overall Approach for Site

- OU-1: ROD signed on September 30, 2013
  - acquisition and permanent relocation of residents at five residential properties
  - remediation of soil at nine residential properties on Water Street
  - demolition of a building at the former Flintkote property
- OU-2: RI/FS on-going

addresses the creek corridor including approximately 4,000 feet of contaminated sediment in the creek and several other contaminated commercial/industrial properties that are sources of contamination to the creek in the City of Lockport

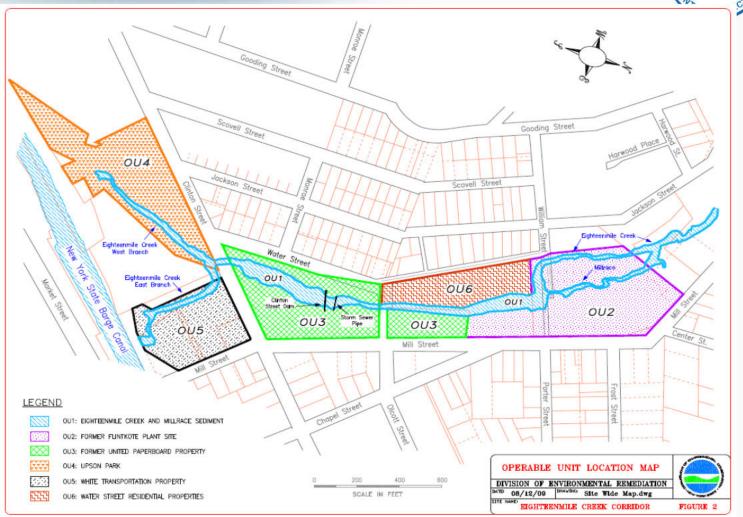
OU-3: RI/FS on-going

addresses contaminated sediment in the creek north of Lockport to its discharge into Lake Ontario



### **Creek Corridor**







#### Water Street Properties

- Nine residential properties on Water Street
  - Six privately owned and three owned by the City of Lockport
  - Five families currently occupy the properties.
     Approximately two children under 10 years live in the Water Street homes.
- Properties occupy approximately 2.4 acres adjacent to the Eighteen Mile Creek





## Risk Assessment: Residential Properties

- NYSDEC and EPA identified elevated concentrations of lead, PCBs and other metals in the residential soils
  - Maximum lead concentration of 4,630 ppm.
  - Maximum PCB concentration of 17 ppm.
  - cancer risk @ 10<sup>-3</sup>
- Properties contain contaminated fill and receive contaminated sediment from the Creek during flooding events. Ash and cinders have been used as fill



## Water Street Homes







#### Phased Approached to EPA's Selected Soil Remedy Soil Excavation, Off-Site Disposal with Treatment and Permanent Relocation

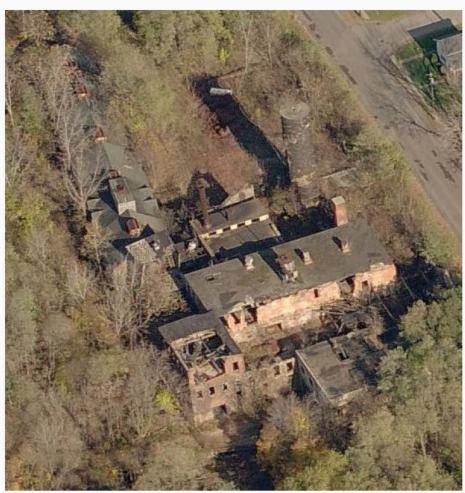
- Initial Phase: relocation and acquisition of six privately owned parcels (5 contain structures and 1 vacant privately owned lot)
- Second Phase: Demolition of residential structures and installation of security fencing
- Final Phase: Excavation and off-site disposal of contaminated soil.

Note: This work would be conducted concurrent with a future remedy under OU2 to address contaminated sediments in the adjacent creek.



## The Former Flintkote Plant Building Demolition

- Located 300 Mill Street
- 1928 to 1971 Flintkote was manufacturer of felt/felt products and of sounddeadening & tufting felt for autos
- Property determined by the NYSDEC to be contaminated but sampling under the building not possible
- Disposal history unknown
- EPA sampled the building for waste characterization purposes.
  - Asbestos-containing material in pipe insulation, window glazing and the roof.
  - Samples from the walls and sediment inside the building revealed PAHs, pesticides, and lead.
  - Lead was also detected in concrete columns in the basement.

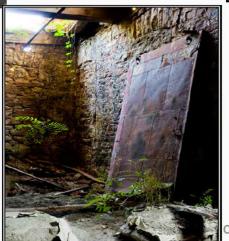


## Flintkote Building











## EPA's Selected Remedy for Building at the former Flintkote Property

- Demolition of the structure
  - Crush and stockpile concrete/stone debris on-site;
    - · Use as fill on Flintkote property after remedy selection for OU2;
  - Provides necessary access to conduct sampling
    - · Potential source of PCBs to adjacent creek located beneath building;
    - Source will be further evaluated and as part of OU2;
- Off-site T &D of contaminated debris

### Remedy Implementation Schedule

- FY 2014 Acquisition of six privately owned properties on Water Street and relocation of adults and children residents at five of the six properties by September of 2014.
- FY 2014 Start demolition of the former Flintkote building in spring of 2014.
- FY 2015 Demolition of the vacant residential homes.
- FY 2017 Excavation of contaminated soil and offsite disposal at all nine residential properties will not be performed until execution of the remedy selected for the Creek Corridor.



# Remedy Implementation Funding Needs by Fiscal Year

FY 2014	Acquisition of six privately owned properties on Water Street, relocation of the residents from five of the six properties	Acquisitions & Relocations \$ 438,325
	Demolition of the Flintkote bldg.	Flintkote Blg – Demolition \$ 874,980
2015	Demolition of the five Water Street Homes.	\$342,545
2017	Excavation of contaminated soil from all nine residential properties	\$2,243,000

### **Removal Action**



#### Water Street Removal Action –

- Additional sampling to more precisely determine where contaminated surface soil exists
- Placement of clean top soil over contaminated soil to serve as a temporary protective measure until a permanent remedy can be implemented
  - Temporary soil cover is six inches thick
  - Protectiveness easily compromised by physical disturbance and erosion.
  - Cover will require frequent inspection and maintenance to maintain integrity.
  - O&M of 2.4 acre cover will incur regular expense to the Site, which is Fundlead.
- Establishing and maintaining vegetative cover
- Coordinate the removal of culvert blockages when they occur
- Action Completed in October 2013





